



Network

BOX

# XNB-8002

6MP Box Camera



## Key Features

- 6MP resolution
- 0.05Lux@F1.2 (Color), 0.005Lux(B/W)
- Max. 30fps@6MP (H.265/H.264)
- Day & Night (ICR), extreme WDR (120dB)
- DIS with built-in Gyro sensor
- Video Analytics(Defocus, Directional detection, Audio detection, Shock detection, Face/Upper body detection)
- Digital auto tracking, Sound classification
- Motion detection, Handover
- Dual SD slots (Max. 1TB)
- WiseStream II support
- Certified by UL CAP

## Compatible Accessories (Optional)



SHB-4301HP



STB-4150V

# XNB-8002

## 6MP Box Camera



## Specifications

| Video                       |   |
|-----------------------------|---|
| Imaging Device              | 1/2.8" CMOS   |
| Resolution                  | 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240  |
| Max. Framerate              | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps(@6MP Max. 5fps)   |
| Min. Illumination           | Color: 0.05Lux(F1.2, 1/30sec, 30IRE)<br>BW: 0.005Lux(F1.2, 1/30sec, 30IRE)  |
| Video Out                   | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation<br>USB: Micro USB Type B, 1280x720 for installation   |
| Lens                        |   |
| Focus Control               | Simple focus  |
| Lens Type                   | DC auto iris, P iris, Manual, I-CS  |
| Mount Type                  | C mount, CS mount   |
| Operational                 |   |
| Camera Title                | Displayed up to 85 characters   |
| Day & Night                 | Auto(ICR)   |
| Backlight Compensation      | BLC, HLC, WDR, SSSR   |
| Wide Dynamic Range          | extremeWDR(120dB)   |
| Digital Noise Reduction     | SSNR V  |
| Digital Image Stabilization | Support(built-in gyro sensor)   |
| Defog                       | Support   |
| Motion Detection            | 8ea, 8point Polygonal zones   |
| Privacy Masking             | 32ea, 4point Quadrangle zones<br>- Color: Gray/Green/Red/Blue/Black/White<br>- Mosaic   |
| Gain Control                | Off / Max gain / Manual   |
| White Balance               | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor   |
| LDC                         | Support(Fill/stretch mode)  |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker(2~1/12,000sec)<br>Prefer shutter control   |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)  |
| Analytics                   | Analytics events<br>- Defocus detection, Directional detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Fog detection, Virtual line, Audio detection, Sound classification, Shock detection, Face/upper body detection |
| Business Intelligence       | People counting, Queue management, Heatmap  |
| Serial Interface            | RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)  |
| Alarm I/O                   | 2 configurable I/O ports  |
| Alarm Triggers              | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription   |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

|                                       |   |
|---------------------------------------|---|
| Alarm Events                          | When alarm trigger occurred<br>- File upload(image): e-mail/FTP/SFTP<br>- File upload(video clip): FTP/SFTP<br>- Notification: e-mail<br>- Recording: SD/SDHC/SDXC or NAS recording at event triggers<br>- Alarm output<br>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP<br>- Audio clip playback<br>- MQTT: publication |
| Audio In                              | Selectable(mic in/line in/Built-in mic)   |
| Audio Out                             | Line out  |
| <b>Network</b>                        |   |
| Ethernet                              | Metal shielded RJ-45(10/100/1000BASE-T)   |
| Video Compression                     | H.265/H.264: Main/Baseline/High, MJPEG  |
| Audio Compression                     | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz  |
| Smart Codec                           | Manual(5ea area), WiseStream II   |
| Bitrate Control                       | H.264/H.265: CBR or VBR<br>MJPEG: VBR   |
| Streaming                             | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 10 profiles, 3 virtual channel support)   |
| Protocol                              | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT  |
| Application Programming Interface     | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform  |
| <b>Security</b>                       |   |
| OS / Firmware Protect                 | Encrypted Firmware, Secure boot, Signed Firmware  |
| User authentication                   | Digest Authenticon, Prevent brute-force attacks   |
| Network authentication                | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)  |
| Secure Communication                  | HTTPS, WSS(WebSocket Secure), SRTP  |
| Access Control                        | IP-based access control   |
| Data Protect                          | Encryption Credentials, Encrypt compress for live recording file export   |
| Audit                                 | Access / System / Event Log management  |
| Device ID                             | Device certificate(Hanwha Vision Root CA)   |
| Secure Storage                        | HTPM(Hanwha trusted platform module), SDcard partition encrypt  |
| Security Certificate                  | CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)  |
| <b>General</b>                        |   |
| Webpage Language                      | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek  |
| Edge Storage                          | Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)  |
| Memory                                | 4GB RAM, 512MB Flash  |
| <b>Environmental &amp; Electrical</b> |   |
| Operating Temperature / Humidity      | -10°C~+55°C(+14°F~+131°F) / 0~95% RH(non-condensing)  |
| Storage Temperature / Humidity        | -50°C~+60°C(-58°F~+140°F) / 0~90% RH  |
| Input Voltage                         | PoE(IEEE802.3af, class3), 12VDC, 24VAC  |

## XNB-8002

|                   |  |
|-------------------|--|
| Power Consumption | PoE: Max 12.95W, typical 8.2W<br>12VDC: Max 11.5W, typical 7.5W<br>24VAC: Max 13.5W, typical 8.9W<br>Power redundancy failover |
|-------------------|--|

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**Mechanical**

|                             |  |
|-----------------------------|--|
| Color / Material            | Black / Aluminum                                     |
| Product Dimensions / Weight | 81(W)x67(H)x165(D)mm(3.19x2.64x6.48"), 880g(1.94 lb) |
| Housing (Box)               | SHB-4301HP, SHB-4200/4200H                           |

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**Certifications & Standards**

|        |   |
|--------|---|
| EMC    | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A , KS C 9835 |
| Safety | UL 60950-1, CAN/CSA C22.2 NO. 60950-1<br>IEC/EN 62471   |

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6MP Box Camera



CAD

Unit:mm [inch]

